

Cryptography Using Chebyshev Polynomials

cryptography using chebyshev polynomials - welcome to cecm - computing $g^n \pmod p$ using a binary decomposition of n . in section 4 we study properties of the sequence of values of $t_n(x) \pmod p$, and in section 5 we show that the discrete log problem for chebyshev polynomials can be mapped into the classical discrete log problem. finally, in section 6, we give an rsa encryption algorithm based on chebyshev ...

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chebyshev polynomials and approximation theory in ... - cryptography using chebyshev polynomials 2004.] 2 optimality of chebyshev polynomials there $\hat{c} \in \hat{\mathcal{T}}^m$ s only one bullet in the gun. it $\hat{c} \in \hat{\mathcal{T}}^m$ s called the chebyshev polynomial. { rocco servedio via moritz hardt (zen of gradient descent blog post). it turns out, that the optimal jump polynomials are given by the chebyshev polynomials (of the rst kind).

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public key cryptosystems based on chaotic- chebyshev ... - cryptography. this paper describes a public key encryption based on chebyshev polynomials [1].we discuss the algorithm for textual data and present the cryptanalysis which can be ...

calculation enhancement of chebyshev polynomial over \mathbb{Z} - chebyshev polynomial calculation before the polynomial can be used in mainstream cryptosystems. in this paper, two types of chebyshev polynomial calculation models ... public-key cryptography, chebyshev polynomial, and chaos cryptography. 1. ... polynomials in \mathbb{G} , the determinant is also a polynomial in \mathbb{G} . the cayley $\hat{c} \in \hat{\mathcal{T}}^m$ hamilton theorem states ...

mathematics of post-quantum cryptography - mathematics of post-quantum cryptography the algebraic cryptography center at stevens invites you to attend a one-day workshop on mathematics of post-quantum cryptography. the main focus is on algorithmic problems in group theory and multivariate polynomials over finite fields. schedule: 9:30-10:00 breakfast

security of public key cryptosystems based on chebyshev ... - algorithm, using chaotic chebyshev polynomials, and suggested an alternative implementation by means of some generalised chebyshev maps (see [31] and [22]), termed jacobian elliptic chebyshev rational maps in

[22]. our contribution. we start by analysing the public-key cryptosystem based on chaos theory,

263 - cryptology eprint archive - next, the compositions of chebyshev polynomials are also chebyshev polynomials. in particular, $T_n(T_m(x)) = T_{nm}(x)$. (4) this is known as the commutative property of chebyshev polynomials. 3 our construction is relatively small. it is just solving an equation with a polynomial of degree k in real number domain.

public key cryptosystems based on chaotic-chebyshev ... - cryptography. this paper describes a public key encryption based on chebyshev polynomials [1].we discuss the algorithm for textual data and present the cryptanalysis which can be performed on this algorithm for the recovery of encrypted data [2]. we also describe a simple hashing algorithm for making

cryptanalysis and improvement of a three-party key ... - cryptanalysis and improvement of a three-party key agreement protocol using enhanced chebyshev 421 fig. 1 initialization phase of lai et al.'s protocol 3.1 initialization phase as shown in fig.1, the following steps will be executed between the user a and the server s when a wants to be a legal user of the system.

public key cryptosystems based on chaotic chebyshev ... - deal of intensive research activities in the study of cryptography. this paper describes a public key encryption based on chebyshev polynomials by alfred et al. (1996).

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